

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/751,702A
Source: IFW/6
Date Processed by STIC: 1/19/07

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/751,702A

CRF Edit Date: 1/19/07
Edited by: AN

- Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

✓

Corrected the SEQ ID NO. Sequence numbers edited were:

40

- Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

- Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

- Inserted mandatory headings/numeric identifiers, specifically:

- Moved responses to same line as heading/numeric identifier, specifically:

- Other:



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/751,702A

DATE: 01/19/2007
TIME: 12:27:27

Input Set : A:\PTO.txt
Output Set: N:\CRF4\01192007\J751702A.raw

3 <110> APPLICANT: Tuomanen, Elaine I
 4 Wizemann, Theresa M.
 5 Masure, H. R.
 6 Johnson, Leslie S.
 7 Koenig, Scott
 9 <120> TITLE OF INVENTION: POLYPEPTIDE COMPRISING THE AMINO ACID OF AN N-TERMINAL
 10 CHOLINE BINDING PROTEIN A TRUNCATE, VACCINE DERIVED
 11 THEREFROM AND USES THEREOF
 13 <130> FILE REFERENCE: 044158/273011
 15 <140> CURRENT APPLICATION NUMBER: 10/751,702A
 16 <141> CURRENT FILING DATE: 2004-01-05
 18, <150> PRIOR APPLICATION NUMBER: 09/056,019
 19 <151> PRIOR FILING DATE: 1998-04-07
 21 <160> NUMBER OF SEQ ID NOS: 42
 23 <170> SOFTWARE: PatentIn Ver. 2.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 406
 27 <212> TYPE: PRT
 28 <213> ORGANISM: Streptococcus pneumoniae
 30 <400> SEQUENCE: 1
 31 Glu Asn Glu Gly Ala Thr Gln Val Pro Thr Ser Ser Asn Arg Ala Asn
 32 1 5 10 15
 34 Glu Ser Gln Ala Glu Gln Gly Glu Gln Pro Lys Lys Leu Asp Ser Glu
 35 20 25 30
 37 Arg Asp Lys Ala Arg Lys Glu Val Glu Glu Tyr Val Lys Lys Ile Val
 38 35 40 45
 40 Gly Glu Ser Tyr Ala Lys Ser Thr Lys Lys Arg His Thr Ile Thr Val
 41 50 55 60
 43 Ala Leu Val Asn Glu Leu Asn Asn Ile Lys Asn Glu Tyr Leu Asn Lys
 44 65 70 75 80
 46 Ile Val Glu Ser Thr Ser Glu Ser Gln Leu Gln Ile Leu Met Met Glu
 47 85 90 95
 49 Ser Arg Ser Lys Val Asp Glu Ala Val Ser Lys Phe Glu Lys Asp Ser
 50 100 105 110
 52 Ser Ser Ser Ser Ser Asp Ser Ser Thr Lys Pro Glu Ala Ser Asp
 53 115 120 125
 55 Thr Ala Lys Pro Asn Lys Pro Thr Glu Pro Gly Glu Lys Val Ala Glu
 56 130 135 140
 58 Ala Lys Lys Lys Val Glu Glu Ala Glu Lys Lys Ala Lys Asp Gln Lys
 59 145 150 155 160
 61 Glu Glu Asp Arg Arg Asn Tyr Pro Thr Ile Thr Tyr Lys Thr Leu Glu
 62 165 170 175
 64 Leu Glu Ile Ala Glu Ser Asp Val Glu Val Lys Lys Ala Glu Leu Glu

sel P. 6

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Input Set : A:\PTO.txt
Output Set: N:\CRF4\01192007\J751702A.raw

| | | | |
|-----|---|-----|-----|
| 65 | 180 | 185 | 190 |
| 67 | Leu Val Lys Val Lys Ala Asn Glu Pro Arg Asp Glu Gln Lys Ile Lys | | |
| 68 | 195 | 200 | 205 |
| 70 | Gln Ala Glu Ala Glu Val Glu Ser Lys Gln Ala Glu Ala Thr Arg Leu | | |
| 71 | 210 | 215 | 220 |
| 73 | Lys Lys Ile Lys Thr Asp Arg Glu Glu Ala Glu Glu Ala Lys Arg | | |
| 74 | 225 | 230 | 235 |
| 76 | Arg Ala Asp Ala Lys Glu Gln Gly Lys Pro Lys Gly Arg Ala Lys Arg | | 240 |
| 77 | 245 | 250 | 255 |
| 79 | Gly Val Pro Gly Glu Leu Ala Thr Pro Asp Lys Lys Glu Asn Asp Ala | | |
| 80 | 260 | 265 | 270 |
| 82 | Lys Ser Ser Asp Ser Ser Val Gly Glu Glu Thr Leu Pro Ser Pro Ser | | |
| 83 | 275 | 280 | 285 |
| 85 | Leu Lys Pro Glu Lys Lys Val Ala Glu Ala Glu Lys Lys Val Glu Glu | | |
| 86 | 290 | 295 | 300 |
| 88 | Ala Lys Lys Ala Glu Asp Gln Lys Glu Glu Asp Arg Arg Asn Tyr | | |
| 89 | 305 | 310 | 315 |
| 91 | Pro Thr Asn Thr Tyr Lys Thr Leu Glu Leu Glu Ile Ala Glu Ser Asp | | |
| 92 | 325 | 330 | 335 |
| 94 | Val Glu Val Lys Lys Ala Glu Leu Glu Leu Val Lys Glu Glu Ala Lys | | |
| 95 | 340 | 345 | 350 |
| 97 | Glu Pro Arg Asn Glu Glu Lys Val Lys Gln Ala Lys Ala Glu Val Glu | | |
| 98 | 355 | 360 | 365 |
| 100 | Ser Lys Lys Ala Glu Ala Thr Arg Leu Glu Lys Ile Lys Thr Asp Arg | | |
| 101 | 370 | 375 | 380 |
| 103 | Lys Lys Ala Glu Glu Ala Lys Arg Lys Ala Ala Glu Glu Asp Lys | | |
| 104 | 385 | 390 | 395 |
| 106 | Val Lys Glu Lys Pro Ala | | 400 |
| 107 | 405 | | |
| 110 | <210> SEQ ID NO: 2 | | |
| 111 | <211> LENGTH: 655 | | |
| 112 | <212> TYPE: PRT | | |
| 113 | <213> ORGANISM: Streptococcus pneumoniae | | |
| 115 | <400> SEQUENCE: 2 | | |
| 116 | Glu Asn Glu Gly Ala Thr Gln Val Pro Thr Ser Ser Asn Arg Ala Asn | | |
| 117 | 1 | 5 | 10 |
| | | | 15 |
| 119 | Glu Ser Gln Ala Glu Gln Gly Glu Gln Pro Lys Lys Leu Asp Ser Glu | | |
| 120 | 20 | 25 | 30 |
| 122 | Arg Asp Lys Ala Arg Lys Glu Val Glu Glu Tyr Val Lys Lys Ile Val | | |
| 123 | 35 | 40 | 45 |
| 125 | Gly Glu Ser Tyr Ala Lys Ser Thr Lys Lys Arg His Thr Ile Thr Val | | |
| 126 | 50 | 55 | 60 |
| 128 | Ala Leu Val Asn Glu Leu Asn Asn Ile Lys Asn Glu Tyr Leu Asn Lys | | |
| 129 | 65 | 70 | 75 |
| | | | 80 |
| 131 | Ile Val Glu Ser Thr Ser Glu Ser Gln Leu Gln Ile Leu Met Met Glu | | |
| 132 | 85 | 90 | 95 |
| 134 | Ser Arg Ser Lys Val Asp Glu Ala Val Ser Lys Phe Glu Lys Asp Ser | | |
| 135 | 100 | 105 | 110 |
| 137 | Ser Ser Ser Ser Ser Asp Ser Ser Thr Lys Pro Glu Ala Ser Asp | | |

RAW SEQUENCE LISTING
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Input Set : A:\PTO.txt
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| | | | |
|-----|---|-----|-----|
| 138 | 115 | 120 | 125 |
| 140 | Thr Ala Lys Pro Asn Lys Pro Thr Glu Pro Gly Glu Lys Val Ala Glu | | |
| 141 | 130 | 135 | 140 |
| 143 | Ala Lys Lys Lys Val Glu Glu Ala Glu Lys Lys Ala Lys Asp Gln Lys | | |
| 144 | 145 | 150 | 155 |
| 146 | Glu Glu Asp Arg Arg Asn Tyr Pro Thr Ile Thr Tyr Lys Thr Leu Glu | | 160 |
| 147 | 165 | 170 | 175 |
| 149 | Leu Glu Ile Ala Glu Ser Asp Val Glu Val Lys Lys Ala Glu Leu Glu | | |
| 150 | 180 | 185 | 190 |
| 152 | Leu Val Lys Val Lys Ala Asn Glu Pro Arg Asp Glu Gln Lys Ile Lys | | |
| 153 | 195 | 200 | 205 |
| 155 | Gln Ala Glu Ala Glu Val Glu Ser Lys Gln Ala Glu Ala Thr Arg Leu | | |
| 156 | 210 | 215 | 220 |
| 158 | Lys Lys Ile Lys Thr Asp Arg Glu Glu Ala Glu Glu Ala Lys Arg | | |
| 159 | 225 | 230 | 235 |
| 161 | Arg Ala Asp Ala Lys Glu Gln Gly Lys Pro Lys Gly Arg Ala Lys Arg | | 240 |
| 162 | 245 | 250 | 255 |
| 164 | Gly Val Pro Gly Glu Leu Ala Thr Pro Asp Lys Lys Glu Asn Asp Ala | | |
| 165 | 260 | 265 | 270 |
| 167 | Lys Ser Ser Asp Ser Ser Val Gly Glu Glu Thr Leu Pro Ser Pro Ser | | |
| 168 | 275 | 280 | 285 |
| 170 | Leu Lys Pro Glu Lys Lys Val Ala Glu Ala Glu Lys Lys Val Glu Glu | | |
| 171 | 290 | 295 | 300 |
| 173 | Ala Lys Lys Lys Ala Glu Asp Gln Lys Glu Glu Asp Arg Arg Asn Tyr | | |
| 174 | 305 | 310 | 315 |
| 176 | Pro Thr Asn Thr Tyr Lys Thr Leu Glu Leu Glu Ile Ala Glu Ser Asp | | 320 |
| 177 | 325 | 330 | 335 |
| 179 | Val Glu Val Lys Lys Ala Glu Leu Glu Leu Val Lys Glu Glu Ala Lys | | |
| 180 | 340 | 345 | 350 |
| 182 | Glu Pro Arg Asn Glu Glu Lys Val Lys Gln Ala Lys Ala Glu Val Glu | | |
| 183 | 355 | 360 | 365 |
| 185 | Ser Lys Lys Ala Glu Ala Thr Arg Leu Glu Lys Ile Lys Thr Asp Arg | | |
| 186 | 370 | 375 | 380 |
| 188 | Lys Lys Ala Glu Glu Glu Ala Lys Arg Lys Ala Ala Glu Glu Asp Lys | | |
| 189 | 385 | 390 | 395 |
| 191 | 400 | 410 | 415 |
| 192 | Val Lys Glu Lys Pro Ala Glu Gln Pro Gln Pro Ala Pro Ala Pro Lys | | |
| 194 | 420 | 425 | 430 |
| 195 | Ala Glu Lys Pro Ala Pro Ala Pro Lys Pro Glu Asn Pro Ala Glu Gln | | |
| 197 | 435 | 440 | 445 |
| 198 | Pro Lys Ala Glu Lys Pro Ala Asp Gln Gln Ala Glu Glu Asp Tyr Ala | | |
| 200 | 450 | 455 | 460 |
| 203 | Arg Arg Ser Glu Glu Glu Tyr Asn Arg Leu Thr Gln Gln Gln Pro Pro | | |
| 204 | 465 | 470 | 475 |
| 206 | Lys Thr Glu Lys Pro Ala Gln Pro Ser Thr Pro Lys Thr Gly Trp Lys | | 480 |
| 207 | Gln Glu Asn Gly Met Trp Tyr Phe Tyr Asn Thr Asp Gly Ser Met Ala | | |
| 209 | 485 | 490 | 495 |
| 210 | Thr Gly Trp Leu Gln Asn Asn Gly Ser Trp Tyr Tyr Leu Asn Ser Asn | | |
| | 500 | 505 | 510 |

RAW SEQUENCE LISTING DATE: 01/19/2007
 PATENT APPLICATION: US/10/751,702A TIME: 12:27:27

Input Set : A:\PTO.txt
 Output Set: N:\CRF4\01192007\J751702A.raw

212 Gly Ala Met Ala Thr Gly Trp Leu Gln Asn Asn Gly Ser Trp Tyr Tyr
 213 515 520 525
 215 Leu Asn Ala Asn Gly Ser Met Ala Thr Gly Trp Leu Gln Asn Asn Gly
 216 530 535 540
 218 Ser Trp Tyr Tyr Leu Asn Ala Asn Gly Ser Met Ala Thr Gly Trp Leu
 219 545 550 555 560
 221 Gln Tyr Asn Gly Ser Trp Tyr Tyr Leu Asn Ala Asn Gly Ser Met Ala
 222 565 570 575
 224 Thr Gly Trp Leu Gln Tyr Asn Gly Ser Trp Tyr Tyr Leu Asn Ala Asn
 225 580 585 590
 227 Gly Asp Met Ala Thr Gly Trp Val Lys Asp Gly Asp Thr Trp Tyr Tyr
 228 595 600 605
 230 Leu Glu Ala Ser Gly Ala Met Lys Ala Ser Gln Trp Phe Lys Val Ser
 231 610 615 620
 233 Asp Lys Trp Tyr Tyr Val Asn Gly Ser Gly Ala Leu Ala Val Asn Thr
 234 625 630 635 640
 236 Thr Val Asp Gly Tyr Gly Val Asn Ala Asn Gly Glu Trp Val Asn
 237 645 650 655
 240 <210> SEQ ID NO: 3
 241 <211> LENGTH: 284
 242 <212> TYPE: PRT
 243 <213> ORGANISM: Streptococcus pneumoniae
 245 <400> SEQUENCE: 3
 246 Glu Asn Glu Gly Ala Thr Gln Val Pro Thr Ser Ser Asn Arg Ala Asn
 247 1 5 10 15
 249 Glu Ser Gln Ala Glu Gln Gly Glu Gln Pro Lys Lys Leu Asp Ser Glu
 250 20 25 30
 252 Arg Asp Lys Ala Arg Lys Glu Val Glu Glu Tyr Val Lys Lys Ile Val
 253 35 40 45
 255 Gly Glu Ser Tyr Ala Lys Ser Thr Lys Lys Arg His Thr Ile Thr Val
 256 50 55 60
 258 Ala Leu Val Asn Glu Leu Asn Ile Lys Asn Glu Tyr Leu Asn Lys
 259 65 70 75 80
 261 Ile Val Glu Ser Thr Ser Glu Ser Gln Leu Gln Ile Leu Met Met Glu
 262 85 90 95
 264 Ser Arg Ser Lys Val Asp Glu Ala Val Ser Lys Phe Glu Lys Asp Ser
 265 100 105 110
 267 Ser Ser Ser Ser Ser Asp Ser Ser Thr Lys Pro Glu Ala Ser Asp
 268 115 120 125
 270 Thr Ala Lys Pro Asn Lys Pro Thr Glu Pro Gly Glu Lys Val Ala Glu
 271 130 135 140
 273 Ala Lys Lys Lys Val Glu Glu Ala Glu Lys Lys Ala Lys Asp Gln Lys
 274 145 150 155 160
 276 Glu Glu Asp Arg Arg Asn Tyr Pro Thr Ile Thr Tyr Lys Thr Leu Glu
 277 165 170 175
 279 Leu Glu Ile Ala Glu Ser Asp Val Glu Val Lys Lys Ala Glu Leu Glu
 280 180 185 190
 282 Leu Val Lys Val Lys Ala Asn Glu Pro Arg Asp Glu Gln Lys Ile Lys
 283 195 200 205

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/751,702A

DATE: 01/19/2007
TIME: 12:27:27

Input Set : A:\PTO.txt
Output Set: N:\CRF4\01192007\J751702A.raw

285 Gln Ala Glu Ala Glu Val Glu Ser Lys Gln Ala Glu Ala Thr Arg Leu
 286 210 215 220
 288 Lys Lys Ile Lys Thr Asp Arg Glu Glu Ala Glu Glu Ala Lys Arg
 289 225 230 235 240
 291 Arg Ala Asp Ala Lys Glu Gln Gly Lys Pro Lys Gly Arg Ala Lys Arg
 292 245 250 255
 294 Gly Val Pro Gly Glu Leu Ala Thr Pro Asp Lys Lys Glu Asn Asp Ala
 295 260 265 270
 297 Lys Ser Ser Asp Ser Ser Val Gly Glu Glu Thr Leu
 298 275 280
 301 <210> SEQ ID NO: 4
 302 <211> LENGTH: 106
 303 <212> TYPE: PRT
 304 <213> ORGANISM: Streptococcus pneumoniae
 306 <400> SEQUENCE: 4
 307 Lys Pro Glu Lys Lys Val Ala Glu Ala Glu Lys Lys Val Glu Glu Ala
 308 1 5 10 15
 310 Lys Lys Lys Ala Glu Asp Gln Lys Glu Glu Asp Arg Arg Asn Tyr Pro
 311 20 25 30
 313 Thr Asn Thr Tyr Lys Thr Leu Glu Leu Glu Ile Ala Glu Ser Asp Val
 314 35 40 45
 316 Glu Val Lys Lys Ala Glu Leu Glu Leu Val Lys Glu Glu Ala Lys Glu
 317 50 55 60
 319 Pro Arg Asn Glu Glu Lys Val Lys Gln Ala Lys Ala Glu Val Glu Ser
 320 65 70 75 80
 322 Lys Lys Ala Glu Ala Thr Arg Leu Glu Lys Ile Lys Thr Asp Arg Lys
 323 85 90 95
 325 Lys Ala Glu Glu Ala Lys Arg Lys Ala
 326 100 105
 329 <210> SEQ ID NO: 5
 330 <211> LENGTH: 109
 331 <212> TYPE: PRT
 332 <213> ORGANISM: Streptococcus pneumoniae
 334 <400> SEQUENCE: 5
 335 Thr Glu Pro Gly Glu Lys Val Ala Glu Ala Lys Lys Lys Val Glu Glu
 336 1 5 10 15
 338 Ala Glu Lys Lys Ala Lys Asp Gln Lys Glu Glu Asp Arg Arg Asn Tyr
 339 20 25 30
 341 Pro Thr Ile Thr Tyr Lys Thr Leu Glu Leu Glu Ile Ala Glu Ser Asp
 342 35 40 45
 344 Val Glu Val Lys Lys Ala Glu Leu Glu Leu Val Lys Val Lys Ala Asn
 345 50 55 60
 347 Glu Pro Arg Asp Glu Gln Lys Ile Lys Gln Ala Glu Ala Glu Val Glu
 348 65 70 75 80
 350 Ser Lys Gln Ala Glu Ala Thr Arg Leu Lys Lys Ile Lys Thr Asp Arg
 351 85 90 95
 353 Glu Glu Ala Glu Glu Ala Lys Arg Arg Ala Asp Ala
 354 100 105
 357 <210> SEQ ID NO: 6

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/19/2007
PATENT APPLICATION: US/10/751,702A TIME: 12:27:28

FJ
Input Set : A:\PTO.txt
Output Set: N:\CRF4\01192007\J751702A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 2,3
Seq#:27; Xaa Pos. 1
Seq#:28; Xaa Pos. 243
Seq#:40; Xaa Pos. 1,44,45,46,47,48,49,50,51,52,53,54,64,65,66,68,69,114,115
Seq#:40; Xaa Pos. 116,131,132,133,134,135,136,137,138,139,140,141,142,143
Seq#:40; Xaa Pos. 144,145,146,147,148,149,150,151,173,174,175,176,177,178
Seq#:40; Xaa Pos. 179,262,275,276,277,281,428,470

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/751,702A

DATE: 01/19/2007

TIME: 12:27:28

Input Set : A:\PTO.txt

Output Set: N:\CRF4\01192007\J751702A.raw

L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:1102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:1162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:240
L:2202 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2209 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:40
L:2213 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:40
L:2214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
M:341 Repeated in SeqNo=40
L:2288 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2292 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:41
L:2296 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:41
L:2300 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:41

**Raw Sequence Listing before editing
(for reference only)**



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/751,702A

DATE: 01/17/2007
TIME: 14:32:16

Input Set : A:\seq list 1-11-97.txt
Output Set: N:\CRF4\01172007\J751702A.raw

3 <110> APPLICANT: Tuomanen, Elaine I
4 Wizemann, Theresa M.
5 Masure, H. R.
6 Johnson, Leslie S.
7 Koenig, Scott
9 <120> TITLE OF INVENTION: POLYPEPTIDE COMPRISING THE AMINO ACID OF AN N-TERMINAL
10 CHOLINE BINDING PROTEIN A TRUNCATE, VACCINE DERIVED
11 THEREFROM AND USES THEREOF
13 <130> FILE REFERENCE: 044158/273011
15 <140> CURRENT APPLICATION NUMBER: 10/751,702A
16 <141> CURRENT FILING DATE: 2004-01-05
18 <150> PRIOR APPLICATION NUMBER: 09/056,019
19 <151> PRIOR FILING DATE: 1998-04-07
21 <160> NUMBER OF SEQ ID NOS: 42
23 <170> SOFTWARE: PatentIn Ver. 2.0

*Does Not Comply
Corrected Diskette Needed*

ERRORED SEQUENCES

see p.3

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/751,702A

DATE: 01/17/2007
TIME: 14:32:17

Input Set : A:\seq list 1-11-97.txt
Output Set: N:\CRF4\01172007\J751702A.raw

L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:1102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:1162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:240
L:2202 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2209 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:40
L:2213 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:40
L:2213 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:40 differs:1
L:2214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=40
L:2288 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2292 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:41
L:2296 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:41
L:2300 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:41

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<210> 40
<211> 492
<212> PRT
<213> Artificial Sequence

<220>
<223> consensus sequence for CbpA N-terminal region

<221> VARIANT
<222> 1, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 64, 65, 66,
68, 69, 114, 115, 116, 131, 132, 133, 134, 135, 136, 137,
138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149,
150, 151, 173, 174, 175, 176, 177, 178, 179, 262, 275
<223> Xaa = Any Amino Acid or other (i.e., deletion)

<221> VARIANT
<222> 276, 277, 281, 428, 470
<223> Xaa = Any Amino Acid or other (i.e., deletion)

<400> (1) 40 ← change to